Jackson Lu

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SKILLS

Languages: JavaScript · TypeScript · Python · C# · C++ · Ruby · Swift · SQL · HTML/CSS/SCSS

Frameworks & Tools: React · React Native · Expo/EAS · Redux/RTK Query · Node.js · Ruby on Rails · .NET · TailwindCSS · Playwright · Jest · Sentry · NewRelic · Claude Code

Data & Infrastructure: AWS · Terraform · Docker · GitHub Actions · Firebase · PostgreSQL · MySQL · Redis · SQLite · TypeORM

EXPERIENCE

NTT Data
Dallas, TX - Remote

Senior Software Engineer
June 2025 – Current

- Architected a headless end-to-end testing platform with a React dashboard for visually composing test flows, automating **80%** of manual portal regression across two pilot teams and redirecting QA toward integrations and business-data coverage.
- Built a Chrome extension on Playwright's open-source engine that turns real user actions into reusable test steps, cutting authoring time by **90%** and enabling 6 non-technical testers to build automated tests without code.
- Maintained **10+ nightly batch jobs** processing thousands of records per run to automate data ingestion, transformation, and organizational hierarchy management, including knowledge transfers when onboarding 2 engineers.
- Automated deployments across all Salesforce instances via **Gearset** and **GitHub Actions**, maintaining environment alignment to prevent unintended metadata and configuration changes from surfacing as bugs.
- Contributing to the migration of a legacy enterprise application into a centralized multi-division portal — porting existing workflows, configurations, and integrations while maintaining a scalable inheritance-based architecture to maximize reusability across different divisions.
- Mentored **3 junior developers** through onboarding, code reviews, and technical documentation, establishing development standards and best practices across the team.

Technologies: React, JavaScript/TypeScript, Playwright, Salesforce, Git, Github Actions, Gearset

Sunnova Energy Corporation (Filed for Chapter 11 Bankruptcy)
Dallas, TX - Remote

Fullstack Mobile Developer
June 2023 – May 2025

- Led **PCI-compliant** in-app payment flow by developing a custom Expo native module consuming Chase's iOS and Android SDKs for client-side card encryption — supporting card and digital wallet transactions with a **99.95% success rate** and **$250K+** in monthly volume.
- Owned and extended core REST APIs serving **1M+ daily requests** at **99.9% uptime**, instrumenting **New Relic** distributed tracing and **CloudWatch** alerting across Lambda functions to proactively identify and triage failures before customer-reported incidents.
- Boosted app performance by **115%** through an offline-first architecture, parallel data loading, and server-side token caching — reducing API calls by **43%** and per-request latency by an average of **1.5s** — delivering a seamless UX for **400K+ users**.
- Delivered a push notification platform delivering **55K+** monthly alerts for billing, payments, and targeted marketing campaigns — leveraging AWS EventBridge batch jobs to sync demographic data tags to OneSignal for location, device, and system-based audience segmentation, achieving a **75% click-through rate** and **15% improvement** in on-time payments.
- Secured the application end-to-end — from biometric authentication and encrypted token persistence on the client to Lambda authorizer-based request validation at the API layer — yielding **zero breaches** in production.
- Established full-stack observability by instrumenting **Sentry**, **Firebase Analytics**, and **New Relic** across mobile and backend services — maintaining **75%+ test coverage**, **<0.1% crash rate**, and a **4.5+ App Store rating**.
- Established **GitHub Actions** CI/CD pipelines for automated testing and deployments to **TestFlight** and **Google Play**, with **Appetize** integrated for live session mirroring and **Terraform** for backend infrastructure provisioning.
- Contributed to key technical deliverables and successfully delivered project milestones that enabled the company to secure a **$3.3B** loan from the U.S. Department of Energy.
- Extended the **.NET** web portal's authentication layer to accept JWT tokens issued by the mobile platform, enabling cross-platform request handling and eliminating redundant API duplication across both surfaces.

Technologies: React, Typescript, Expo/EAS, Jest, AWS (Lambda, API Gateway, SQS, RDS, S3, VPC), Python, .NET, C#, PostgreSQL, Sentry, NewRelic, OneSignal, Git, Github Actions, Terraform, Docker

Tradelegs LLC New York, NY - Remote
Software Developer Jan. 2022 – June 2023

- Developed a full-stack web application for visualizing real-time and historical stock/ETF data, featuring interactive multi-symbol charts, dynamic inputs, and aggregated market insights.
- Built a highly customizable data grid handling **30K+ rows per 7-day window** with complex column structures, custom cell rendering, preset filters, and Excel export — supporting deep data exploration across large financial datasets.
- Improved data retrieval speed by **66%** by post-processing financial data and leveraging **Redis** caching, optimizing performance within existing architecture constraints.
- Migrated an internal vanilla JavaScript component library from a private **npm** registry to **React**, delivering **50+ reusable components** and eliminating **3,000+ lines of code** — improving rendering performance and laying a scalable foundation for future development.
- Authored **RSpec** unit tests for API endpoints from scratch, achieving and maintaining **92% code coverage**.

Technologies: React, Javascript, Ruby on Rails, AWS (Lambda, RDS, S3), PostgreSQL, GitLab, Docker

PROJECTS

IronLog — Local-First Mobile Strength-Training App iOS · Android
Solo project · shipped to TestFlight June 2026 – Present

- Built a cross-platform mobile app for strength training — workout logging, routine building, progress analytics, and body composition — architected local-first on WatermelonDB (SQLite) for a fully offline experience.
- Shipped a native iOS Live Activity (Swift/ActivityKit via a custom Expo module) rendering live rest/workout timers on the Dynamic Island and lock screen.
- Hand-rolled all data visualizations as custom SVG charts — strength/volume/bodyweight trends with multiple time ranges and a 3-month activity heatmap.

Technologies: React Native, TypeScript, Expo, WatermelonDB, Zustand, EAS

EDUCATION & CERTIFICATIONS

CUNY Hunter College — B.A. in Computer Science, Minor in Mathematics GPA: 3.8/4.0
AWS Certified Developer – Associate April 2025 – Present